

Product Data Sheet

Product Name: Manool
Cat. No.: GC61028

Chemical Properties

Cas. No. 596-85-0

SMILES CC(CCC1)(C)[C@]([C@@]1(C)[C@H]2CC[C@](O)(C)C=C)([H])CCC2=C

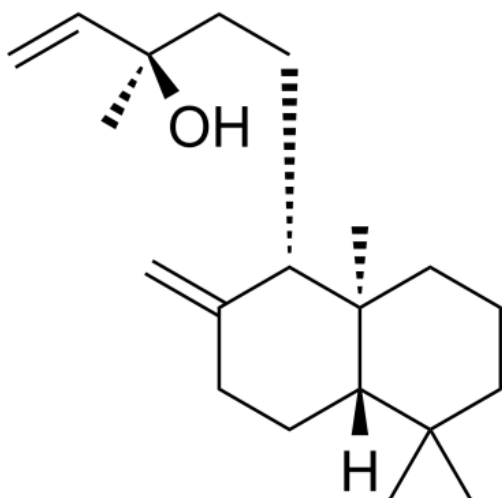
Formula $C_{20}H_{34}O$ M.Wt 290.48

Solubility Storage 4°C, stored under nitroge

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Manool is a diterpene from *Salvia officinalis*. Manool induces selective cytotoxicity in cancer cells. Manool arrests the cancer cells at the G(2)/M phase of the cell cycle[1][2].

Caution: Product has not been fully validated for medical applications. For research use only.

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Manool exhibits higher cytotoxic activity against HeLa (IC₅₀=6.7 µg/mL) and U343 (IC₅₀=6.7 µg/mL) cells[1]. Manool exhibits a protective effect against chromosome damage induced by MMS in HepG2 cells[3].

[1]. de Oliveira PF, et al. Manool, a Salvia officinalis diterpene, induces selective cytotoxicity in cancer cells. Cytotechnology. 2016;68(5):2139-2143. [2]. Pratsinis H, et al. Antiproliferative activity of Greek propolis. J Med Food. 2010;13(2):286-290. [3]. Nicolella HD, et al. Differential effect of manool--a diterpene from Salvia officinalis, on genotoxicity induced by methyl methanesulfonate in V79 and HepG2 cells. Food Chem Toxicol. 2014;72:8-12.

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